

Contact: Brock Cooper
(630) 252-5565
bcooper@anl.gov
For immediate release

Argonne scientist Elena Shevchenko named one of the world's top innovators by Technology Review magazine

ARGONNE, Ill. (Aug. 21, 2009) — Elena Shevchenko, nanoscientist at the U.S. Department of Energy's (DOE) Argonne National Laboratory, has joined a select list of the world's youngest top innovators chosen by *Technology Review* magazine for her work at Argonne's Center for Nanoscale Materials.

"I am honored to be considered one of the Top 35 young innovators and will continue to work diligently to live up to the honor," Shevchenko said. "Nanoscience is a burgeoning field of science with so many discoveries to be made. There are so many possibilities for the future and I am excited to be a part of it. Self-assembly is a natural pathway to create matter at atomic and macromolecular levels. By being able to mix and match different types of nanocrystals and having control over the interaction of neighboring constituents, we have enormous flexibility in material design with low cost."

Every year since 2005, *Technology Review* has recognized 35 innovators under the age of 35 for their work in developing new technologies or a creative use of existing technology. The 2009 TR35 were selected from more than 300 submissions by the editors of *Technology Review* in collaboration with a panel of judges from leading organizations such as the California Institute of Technology, Flagship Ventures, Google, the Massachusetts Institute of Technology (MIT), PureTech Ventures and the University of California, Berkeley.

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Shevchenko – add one

TR35 winners will be profiled in the September/October issue of *Technology Review* and online at www.technologyreview.com/tr35/. In addition, the EmTech@MIT 2009 Conference, to be held September 22–24 at MIT, will honor the winners in a series of “Meet the TR35” presentations, dedicated breakout sessions, and receptions.

Shevchenko received her master's degree in chemistry from Belarussian State University, Minsk and her Ph.D. degree in physical chemistry from the University of Hamburg in Germany. She was a postdoctoral fellow at the IBM T.J Watson Research Center and Columbia University.

She was a staff scientist at The Molecular Foundry at Lawrence Berkeley National Laboratory in Berkeley, Calif., and scientist at the Center for Nanoscale Materials since August of 2005, where her work has been supported by the DOE Office of Science. Her specific areas of interest lie in synthesis of nanoscale materials (magnetic, semiconductor, metallic oxide nanoparticles) with controllable size and shape; nanoparticle design; design of multifunctional materials through self-assembly of nanoparticles; and study of the collective properties of such materials.

"I have to give all credit for my award to my former advisers and colleagues Horst Weller, Chris Murray, Stephen O'Brien, Andrey Rogach, Dmitri Talapin, Paul Alivisatos and Tijana Rajh," she said. "From them I got a great introduction into the synthesis of nanocrystals and the discovery of their exciting properties. It is hard to overestimate their enthusiasm and support of my research."

The U.S. Department of Energy's Argonne National Laboratory seeks solutions to pressing national problems in science and technology. The nation's first national laboratory, Argonne conducts leading-edge basic and applied scientific research in virtually every scientific discipline. Argonne researchers work closely with researchers from hundreds of companies, universities, and federal, state and municipal agencies to help them solve their specific problems, advance America's scientific leadership and prepare the nation for a better future. With employees from more than 60 nations, Argonne is managed by [UChicago Argonne, LLC](#) for the [U.S. Department of Energy's Office of Science](#).

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The Center for Nanoscale Materials at Argonne is one of the five DOE Nanoscale Science Research Centers (NSRCs), premier national user facilities for interdisciplinary research at the nanoscale which are supported by the DOE Office of Science. Together the NSRCs comprise a suite of complementary facilities that provide researchers with state-of-the-art capabilities to fabricate, process, characterize and model nanoscale materials, and constitute the largest infrastructure investment of the National Nanotechnology Initiative. The NSRCs are located at DOE's Argonne, Brookhaven, Lawrence Berkeley, Oak Ridge and Sandia and Los Alamos National Laboratories. For more information about the DOE NSRCs, please visit <http://nano.energy.gov>.